S.A. 77, 1. Ya.

"The Effect of Environmental Factors on the Passage of Various Varieties and Forms . Flam Through Vernalizatio, and Illumination Stages." Cand hiel Sci, All-Union Inst of Plant Growing; All-Union Order of Lenin Academy of Agricultural Sciences iment V. I. Lenin, Leningrad, 1995. (IL, No 12, Mar 55)

So: Sum. No 670, 29 Sept 55 - Survey of Scientific and Technical Disserta ions Defended at USSR Higher Educational Institutions (15)

136-8-1/21

2 ~ 12 g

AUTHORS: Sharov, I.Ye., Postnikov, N.N. The "Krasnyy Vyborzhets" Works are a Hundred Years Old

TITLE:

(Zavodu "Krasnyy Vyborzhets" - sto let)

PERIODICAL: Tsvetnye Metally, 1957, Nr 8, pp.1-11 (USSR) The first September 1957 was the hundredth anniversary of the founding of the copper-rolling factory which was the forerunner of the present "Krasnyy Vyborzhets" works, and ABSTRACT: the authors describe the growth and improvement of this latter with special reference to post-Revolutionary developments. Photographs of the tube-mill, the 3 000 ton hydraulic press and the six-roll mill with isotope instruments for strip-thickness measurement are shown together with those of the authors (director and chief technologist, respectively of the works) and the following personnel who have distinguished themselves: A.I.Lyagin (Geroy Sotsialisticheskogo Truda), A.S. Podmostkov, V.I. Vanyukov, G.I. Gusev, V.I.Silin, N.N.Kyshov, Yu.M.Triakhov, M.I.Komarov, M.V. Tarasova and D.V. Sorokin. Production data are given showing that the relative values for 1939, 1940, 1946, 1956 and 1957 (planned) were 100, 208, 39, 292 and 303, respectively. There are 15 photographs.

Card 1/?

The "Krasnyy Vyborzhets" Works are a Hundred Years Old.
ASSOCIATION. "Krasnyy Vyborzhets" Works (Zavod "Krasnyy Vyborzhets").
AVAILABLE: Library of Congress.
Card 2/2

SOV/136-59-4-11/24

AUTHORS: Shevakin, Yu.F., Candidate of Technical Sciences,

Rytikov, A.M., Sharov, I.Ye., Butomo, D.G., Koshurin, A.V.,

Sergeyeva, Z.L., Engineers

TITLE: Comparison of the Efficiency of Tube Production from

Non-Ferrous Metals and their Alloys by Cold-Rolling and by Drawing Methods (Ekonomicheskaya effektivnost'

proizvodstva trub iz tsvetnykh metallov i splavov kholodnoy prokatkoy po sravneniyu s volocheniyem)

PERIODICAL: Tsvetnyye metally, 1959, Nr 4, pp 57-63 (USSR)

ABSTRACT: Opinion was divided on the relative merits of the different methods of tube production, therefore the

present investigation was carried out. All sizes of tubes were tried by the two methods. It was shown that output from cold-rolling was 10-25% higher than that from drawing (table 1). The machine-hours and man-hours for

cold-rolling were shorter than for drawing (table 2). Table 3 shows the increase in production by cold-rolling with better equipment. By cold-rolling with modern

equipment the machine-hours and man-hours could be cut by

Card 1/3 two in the production of copper tube. The economy in

SOV/136-59-4-11/24

Comparison of the Efficiency of Tube Production from Non-Ferrous Metals and their Alloys by Cold-Rolling and by Drawing Methods

Card 2/3

this case was 224 roubles per ton and in other cases varied from 165 to 374 roubles per ton. The number of operations in the copper tube production was reduced from 27 to 18. The production of condenser tubes in L68 (brass) alloy has been increased from 70-90 to 180-200 m/hr. An advantage of cold-rolling is that deformation can be up to 94% of the initial section. It also allows the manufacture of tubes from L68 without an intermediate temper, giving a tensile strength of 75-77 kg/mm² and an elongation of 2.5-3%. For materials which are difficult to deform (e.g. some Ti alloys) cold-rolling is a superior method of tube production as the machinery is cheaper and the number of operations is reduced. At present, work is in hand for a cold-rolling mill which will produce two or three tubes simultaneously.

SOV/136-59-4-11/24

Comparison of the Efficiency of Tube Production from Non-Ferrous Metals and their Alloys by Cold-Rolling and by Drawing Methods

A STATE OF THE PROPERTY OF THE

There are 5 tables and 4 references, 3 of which are Soviet

ASSOCIATIONS Institut stali; Zavod "Krasnyy Vyborzhets"; Kol'chuginskiy zavod po obrabotke tsvetnykh metallov i splavov (Steel Institute; "Krasnyy Vyborzhets" Works and Kol'chugino Works for Processing of Non-Ferrous Metals and Alloys)

Card 3/3

KONOVALOV, A.N.; SHAROV, K.Ye.

Guarding the safety of rolling stock. Avtom., telem. i sviaz' 8 no.6:1-3 Je '64. (MIFA 17:6)

1. Pomoshchnik dorozhnogo revizora po bezopasnosti dvizheniya poyezdov Moskovskoy dorogi (for Konovalov). 2. Starshiy obshchestvennyy inspektor po bezopasnosti dvizheniya poyezdov Moskovsko-Gor'kovskoy distantsii signalizatsii i svyazi Moskovskoy dorogi (for Sharov).

3/007/62/000/002/008/012 D205/D307

AUTHORS:

Mikhaylov, M. and Sharov, L.

TITLE:

Synthesis of polyamidoamines

PURIODICAL:

Referativnyy byulleten' Bolgarskoy nauchnoy literatury, Khimiya i khimicheskaya tekhnologiya, no. 2, 1962, 8, abstract 111, Khimiya i industriya, 24, 1962, book 1, pp 9-15 (Rus. and Ger. summaries)

TEXT: It was found that the technology of preparing polyamidoamines from linseed oil and aliphatic polyamines may be made better by improving individual stages of the synthesis. Bynthesis of polyamides proceeds via the following stages: methanolysis of linseed oil, polymerization of the methyl esters of the aliphatic acids in linseed oil, and polycondensation of the aliphatic polyamines. Separation of crude methyl ester without washing with water after the methanolysis of linseed oil increases the ester yield by 10% and reduces losses of MeOH. During the ester polymerization stage at 315°C, the duration is decreased to 8-9 hours and the yields of Card 1/2

Synthesis of polyamidoamines

3/007/62/000/002/008/012 D205/D307

Card 2/2

MIKHAILOV, M.; SHAROV, L.

Epoxy resins modified with oils and fatty acids. Khim i industria 35 no.l:17-20 °63.

SHAROV, M.A.; BURUNOV, V.Ye.; DIVINSKIY, A.A.; KHARCHENKO, N.P.;
CHERKASHIN, A.S.; CHULKOV, A.F.; KOSOROTOV, B.V., red.

[DT-75 tractor] Traktor DT-75. Moskva, Kolos, 1965. 258 p.
(MIRA 18:7)

以沙沙沙沙克的名词形式 海外海外海外海 医耳动物炎 医耳迹不足术 化多元型 1500元间 医抗毒素性 Education

KAYNARSKIY, I.S.; DEGTYAREVA, E.V.; PINDRIK, B. Ye.; KUKHTENKO, V.A.;
KULAKOV, N.I.; BEL'CHENKO, B.I.; IVNITSYAYA, N.S.; SMORCDA, I.M.;
SHAROV, M.F.; KOZIN, L.M.; KVASHA, A.S.; PELESHCHUK, M.I.; PRYAKHIN,
L.G.; LEVINA, L.I.; DANILOV, V.I.; DIDENKO, S.Yu. PROTSENKO, G.A.

Reducing dust formation from dinas bricks and dinas mortar.

Ogneupory 29 no.3:109-112 *64 (MIRA 17:3)

1. Ukrainskiy nauchno-issledovatel'skiy institut ogneuporov (for Kaynarskiy, Degtyareva, Pindrik, Kukhtenko). 2. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy koksokhimicheskoy promyshlennosti (for Kulakov, Bel'chenko, Ivnitskaya). 3. Vsesoyuznyy trest po stroitel'stvu i montazhu koksokhimicheskikh zavodov (for Peleshchuk, Pryakhin, Levina). 4. Ukrainskiy nauchno-issledovatel'skiy institut gigiyeny truda i professional'nykh zabolevaniy (for Danilov, Didenko, Protsenko).

FAZIN. Grigorij Naradvida, kama. tekim. madk; Chilibly, boris ivanovida, inch.; hitarey, V.V., inch.; retsendent, Siddoly, M.F., inch.; retsendent; FOT HOV, h.Ya., naradu rea.; Timbovk, Z.V., red.

[Ship equipment from plastics] Sudovye del'nye vesichi iz plastmass. Leningrad, Supertreenie, 1966. 239 p. (MIRA 18:3)

KOROBOVA, K.I., SHAROV, M.G.; SHVETS, A.V.

Introducing the manufacture of percale on automatic looms. Tekst. prom. 24 no.2:32-33 F '64. (MIRA 17:3)

1. Glavnyy inzh. Novo-Tkatskoy fabriki Glukhovskogo khlopchatobumazhnogo kombinata (for Korobova). 2. Zaveduyushchiy tkatskim
proizvodstvom Novo-Tkatskoy fabriki Glukhovskogo khlopchatobumazhnogo kombinata (for Sharov). 3. Nachal'nik tkatskogo tsekha
Novo-Tkatskoy fabriki Glukhovskogo khlopchatobumazhnogo kombinata
(for Shvets).

RYBAS, In.V. mark-smallen lego range; SHAROV, M.r., inzh.-podpolkovnik; makkely, val., insh. kapitan 3-go ranga.

The production of large-scale chesistry for shipbuilding. Mor. stor. 47 no.4:66-72 Ap 164. (MIRA 18:7)

OSADCHIY, L.K.; SYRKIN, Yu.G., inzh.tekhnolog; VEKSHIN, K.D., mashinist elektrovoza, Geroy Sotsialisticheskogo Truda; ONOPRIYENKO, L.N., mashinist elektrovoza; SHAROV, M.S.; MARKOVICH, I.A., mashinist-instruktor

"Electric networks of the VI23 electric locomotive." Elek. i tepl. tiaga 5 no.6:44-45 Je '61. (MIRA 14:10)

1. Depo Dnepropetrovsk (for Syrkin). 2. Depo Barabinsk Zapadno-Sibirskoy dorogi (for Sharov).

(Electric locomotives)

SHAROV, M.S., inzh.

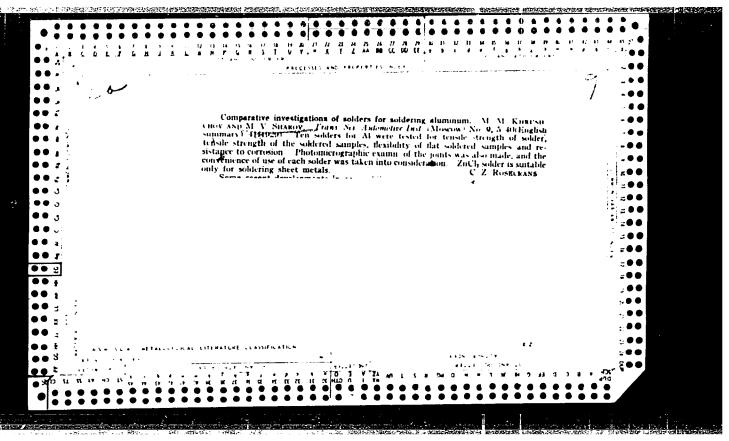
More about the performance of the NB-406 traction engine collectors. Elek, i tepl. tiaga 5 no.12:24-26 D '61. (MIRA 15:1)

(Electric locomotives)

SHAROV, M.S. (Barabinsk)

Organization of the work of locomotive shift crews. Zhel.dor. transp. 43 no.5:57-60 My '61. (MIRA 14:4)

1. Glavnyy inzhener depo Barabinsk. (Railroads—Employees)



"Several Methods of Processing Electron (Magnesium) Alloys in the Liquid State,"
"Trudy Moskovskogo Aviatsionnogo Tekhnologicheskogo Instituta" (Proceedings of the Moscow Aviation Inst. of Technol.), Issue No. 4, pp. 3-29, 1948.

SHARCY, M. V.

"On the Treatment of Magnesium Alloys in a Liquid State." Sub 24 Apr 51, Moscow Aviation Technological Inst

Dissertations presented for science and engineering degrees in Foscow during 1951. SO: Sum. No. 480, 9 May 55

وبالشخفات

USUR/. tils - Aluminum, Alloys, Casting

Sep 51

"On Treatment of Aluminum-Magnesium Alloys in Liquid State," M. F. Odina, Engr, Docent M. V. Sharov, Cand Tech Sei, Poscow Avn Technol Inst

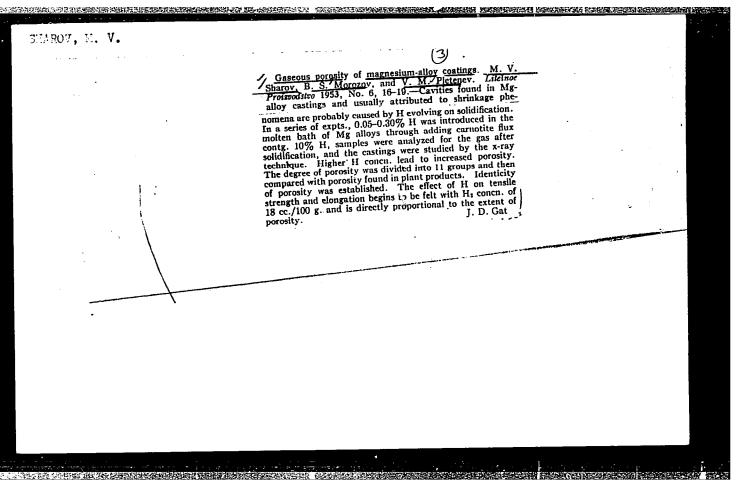
"Litey Prois" No 9, pp 18-27

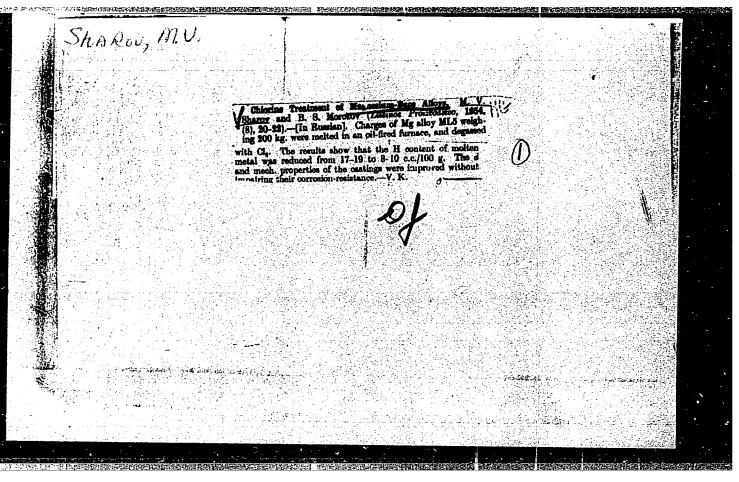
Assuming that introduction of hydride-forming elements into Al-Mg alloys may serve as effective measure against porosity in castings, suggests treatment of molten metal with salts of Zr. Effectiveness of process is similar to action of Cl. Observed considerable decrease of grain size and improvement in mech properties of Al-base alloy Al-8

PA 197T87

- 1. SHAROV, M. V.; NIKITINA, M. F.
- 2. USSR (600)
- 4. Aluminum Founding
- 7. Treating AL8 alloy with zircon salts, Lit. proiz. No. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.





137-58-4-6871

Translation from Referativnyy zhurnal, Metallurgiya, 1958 Nr 4 p 79 'USSR,

· AUTHORS. Sharov, M.V., Gudchenko, A.P.

TITLE A Study of the Reaction Between Hydrogen and Light Alloys During the Process of Fusion (Izucheniye vzalmodeystviya vodoroda

s legkimi splavami v protsesse plavleniya).

PERIODICAL V sb. Metallurg. osnovy lit'ya legkikh splavov. Moscow Oborongiz. 1957, pp 306-340

ABSTRACT. The authors develop a method of determining H in liquid alloys of Al. also in Mg and Mg alloys and certain alloying elements (the method is applicable both to solid metals and alloys to melts), for the purpose of studying certain questions of the change in the H content of light alloys during smelring and working in the liquid state, and to study the effect of the conditions of melting upon the process of gas absorption. The H content in Mg and Mg alloys in accordance with treatment in the liquid state was determined, as was the content of H in charge materials (ingot Al, Silumin and Mg alloying element). Also studied were the changes in H content of molten Al alloys relative to

Card 1/2 their composition and the duration of their maintenance in the

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137-58-4-6871

A Study of the Reaction (cont.)

molten state, the effect of Mg additives on the rate of change in H content during the holding of molten Al-Si alloy, and the changes in the H content when Al-Si alloys containing small amounts of added Na. Ca, and Ce were allowed to stand. The changes in H content in Al alloys held in the molten state at various degrees of atmospheric humidity, also the changes in the H content of Al-Si alloy when treated with fluxes, were studied.

1. Aluminum alloys--Hydrogen--Reaction 2. Magnesium alloys--Hydrogen N.P. --Heaction 5 Manganese alloys--Hdyrogen--Reaction

Card 2/2

137-1958-2-2691

Translation from Referativnyy zhurnal. Metallurgiya, 1958, Nr 2, p 71 (USSR)

AUTHORS. Sharov, M.V., Morozov, B.S., Serebryakov, V.V.

TITLE Degassing Magnesium Alloys With Argon (Degazatsiya magniyevykh splavov argonom)

PERIODICAL V sb. Metallurg osnovy lit'ya legkikh splavov. Moscow, Oborongiz, 1957, pp 341-359

A study was made to ascertain methods and conditions of degassing the ML 5 alloy (an aircraft magnesium alloy) that would assure a steady yield of sound castings. The degassing properties of Ar were tested on this alloy. A molten ML 5 alloy containing 15-19 cm³/100 g of H was subjected to degassing by Ar. The heats occurred in a Fe crucible in an electric shaft furnace. The weight of the charge was 6-7 kg (of the alloy). The alloy was wetfluxed at 750-760°. The Ar was blown through the molten metal, which had been heated to 750-760°. A study was made of the modifying action of CCl₄. The optimum conditions for combined treatment of ML 5 (i.e., degassing with Ar and modification with CCl₄) proved to be 0 5 percent Ar and 0.4 percent CCl₄ at 750-760° -- which assured sound castings with good mechanical properties.

The state of the s

137-1958-2-2691

Degassing Magnesium Alloys with Argon

The combined treatment of the melt (which degassed, modified, and refined the ML 5 alloy) made it possible to combine the three operations into one. These methods for degassing alloy ML 5 are economical and do not require the use of materials that are costly or not readily available. It was further established that blowing Ar through the alloy, then modifying it with magnesite (a consecutive treatment), assured casts of a fine crystalline grain and consistent mechanical properties. Neither the combined treatment nor the one following it affected adversely the corrosion resistance of the alloy.

O.B.

1. Magnesium alloys-Degassing 2. Argon-Applications

Card 2/2

FRIDLYANDER, I.N., kand.tekhn.nauk, otvetstvennvy red.; PETROV, D.A., doktor tekhn.nauk, prof., red.; BELOV, A.F., red.; DRITS, M.Ye., kand. tekhn.nauk, red.; LIVANOV, V.A., kand.tekhn.nauk, red.; SHAROV, M.Y., kand.tekhn.nauk, red.; KORNEYEV, N.I., doktor tekhn.nauk, prof., red.; RZHEZNIKOV, V.S., red. izd-va; CHERNOV, A.N., red. izd-va.

27111 VT

[Light alloys] Legkie splavy. Moskva, Izd-vo Akad. nauk SSSR. No.1. [Physical metallurgy, heat treatment, founding, and use of pressure] Metallovedenie, termicheskaia obrabotka, lit'e i obrabotka davleniem. 1958. 497 p. (MIRA 11:6)

1. Vsesoyuznaya konferentsiya po legkim splavam. 2d, 1955. (Alleys)

SOV/137-58-12-24345

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 12, p 58 (USSR)

AUTHOR: Sharov, M. V.

TITLE: Hydrogen in Light Alloys and Measures for Combatting the Formation

of Gas Pockets in Castings (Vodorod v legkikh splavakh i meropriya-

tiya po bor'be s obrazovaniyem gazovoy poristosti v otlivkakh)

PERIODICAL: V sb.: Legkiye splavy. Nr 1, Moscow, 1958, pp 365-388

ABSTRACT: The physicochemical conditions descriptive of equilibrium solubility

of H₂ in Mg and Al alloys, the possibility of formation of supersaturated solutions, and a method for the fast determination of H₂ in alloys are examined. The possibility that gas will be liberated owing to the high H₂ contents of primary metals (Me) and alloys is noted. A number of methods for combatting the liberation of gas is examined: As a preventive measure, arrangements providing minimum contact of Me and H₂; degasifying by blowing with gases or processing with fluxes, and methods to prevent liberation of gas, such as crystallization under pressure and the addition of hydride-forming Me's. The

results of investigations into the use of Cl₂, He, and Ar to assure Card 1/2 the production of solid castings in the making of shaped Mg alloy

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Hydrogen in Light Alloys and Measures for Combatting the Formation of Gas (cont.)

castings without impairing the other properties of the casting are presented. Fluxing is recommended for the casting of ingots when reverberatory formaces are used for the melts. With Al alloys it is desirable to use K fluorous which yields a solid casting and fine crystallization of the grains. Crystallization under pressure and the addition of hydride-forming Mes is recommended for the casting of shapes. Specifically, addition of 0.1-0 2% Ca is recommended for Mg alloys.

Card 2/2

AUTHORS: Sharov, M. V., Serebryakov, V. V. TITLE:

SOV/163-58-2-6/46 The Solubility of Hydrogen in Magnesium Alloys (Rastvorimost)

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Metallurgiya, 1958, Nz 2, ABSTRACT:

The conditions of the formation of porosity as dependent on the change of the solubility of hydrogen in magnesium alloys was investigated. To determine the hydrogen content in magnesium

alloys the method of his vasuum extraction was employed. Numerous determinations explain the change of the solubility as dependent on the composition of the alloys and on the temperature. In solid metals the solubility of hydrogen at melting temperature amounts of 19 cm3/100g. After melting the solubility

of hydrogen increases to 51 om /100g. The change of the equilibrium schubility of hydrogen in magnesium - aluminum alloys was investigated at temperatures of 20, 750, 8000 as well as at the solidus and liquidus temperature under normal pressure. An intense change of the solubility with an increase in temperature at normal pressure even occurs in alloys in liquid state. From

Card 1/3

SOV/:63-58-2-6/46

The Solubility of Hydriged in Magnesium Allays

the course of the isothermal lines may be seen that the solubility of hydrogen in magnesium . aluminum alloys with an aluminum content of 6% is high. A further increase of the aluminum postent leads to a considerable decrease of the solubility in liquid alloys. The solubility of hydrogen in magnesiumzin: alloys as dependent on the temperature was investigated and it was shown that the solubility curves take a similar course as the curses of the magnesium - aluminum alloys. When the sire convent is increased a higher decrease of the solubillity corose than is the case in magnesium . aluminum alloys. The results obtained point out that the solubility of hydrogen in magnesium alloys is in relation to the porosity of these allrys. Magnesium alloys with a sino content of 6% tend less to firm pores than do those with higher zine content. Magnesium alloys with 6% aluminum wend more to form pores than do alloys with 3% and 9% aluminum. Ternary alloys have a greater tendency we pure formation than binary systems. There are 4 figures, 1 table, and 5 references, 2 of which are Soviet.

ASSOCIATION: Card 2/3

Moskivskiy aviateronnyy teknnologioheskiy institut (Nostow Aire Tethnologioak Institute)

CIA-RDP86-00513R001548620014-0 "APPROVED FOR RELEASE: 08/23/2000

sov/163-58-3-5/49 Sharov, M. V., Serebryakov, V. V. AUTHORS:

The Formation of Oversaturated Solutions of Gas in Metals (Obrazovaniye peresyshchennykh rastvorov gaza v metallakh) TITLE:

Nauchnyye doklady vysshey shkoly. Metallurgiya, 1958, PERIODICAL:

Nr 3, pp 25 - 31 (USSR)

By the change of the composition of the alloy a change of the solubility of hydrogen as well as a change of the rate ABSTRACT:

of diffusion processes occur. The experiments carried out demonstrate that at a certain rate of cooling the

hydrogen dissolved remains in the liquid metal also when the melt sclidifies. The dependence of the residual amount of hydrogen in the solid phase on the cooling rate was investigated. By means of the results obtained curves were plotted which demonstrate that the hydrogen content of the alloys depends on the cooling rate, as does the gas separation in the crystallization of the metal melt. Alloys with an aluminum content exhibit a smaller over-

saturation with hydrogen. By adding aluminum and magnesium the diffusion process is accelerated and the formation

Card 1/2

The Formation of Oversaturated Solutions of Gas in Metals SOV/163-58-3-5/49

of oversaturated solutions is prevented. A comparison made between rapidly cooled alloys with 3% and 6% aluminum showed that the alloys with 3% aluminum have a greater tendency to form oversaturated solid solutions with gas. In the case of a slow cooling for the purpose of separating gas and forming gas porosity a previous degassing by means of chlorine, argon, helium or by the addition of calcium to the alloye is necessary. There are 5 figures; I table, and 5 references,

ASSOCIATION: Moskovskiy aviatsionnyy tekhnologicheskiy institut (Moscow

Technological Institute of Aircraft Construction) SUBMITTED:

December 10, 1957

Card 2/2

15(4)

ATTHAMS: Sharoy, M. V., Bibikov, Ye. L.

SOV/163-58-4-17/47

TITLL:

Porcelity in Magnesium Alloys (Poristopt' v magniyevykh

splay. El)

PERTUDICAL:

No chayye lobbady vyeshey chicaly. Metallurgiya, 1958, No. 4, pp 101 - 107 (USSR)

115711177:

Work was carried out by the aspirant Y .L. Bibikov under the scientific direction of M.V. Sharov, University Pocent, Candid to of Technical Sciences. Magnesium-Aluminum alloys with an uluminum content of 0, 3, 6 and 10% were examined. Two series of expiriments were made: 1)After preparation, all allogs were legaced by chlorine lecving only about 8 cm Lydrogen per 100 g of notel. 2) The alloys were artificially saturated with hydrogen. The hydrogen content was increased up to 20 $\rm cm^2/100~g$ of metal. The formation of porosity was investigated at relatively

wish a coling and at relatively slow cooling. On the strength of the tests made, the following was

Gn.ed 1/3

Pormofity in Displacing Alloys

807/153-58-4-17/47

Jenn. : 1) There are two forms of porocity development: a) "Nuclear" peresity, b) Peresity by gas contraction.
2) Peresity may show one of the forms mentioned wish different degrees of development depending on the influence of three main factors: a) the de see of development of the volume crystallization, b) the intensity of cas liberation during crystallization, c) the speed at which the solid phase forming during engulallisation is shifted. These factors may not in different combinations and with different intensity. The less the temperature gradient during olystallission of the cast piece and the greater the temperature of crystallization, the more the volume crystallization develops. Intensity of gas liberation depends on the quantity of was liberated at an equilibrium during prystallimation, and on the ability of the alley to form oversaturated gas solutions in the metal with different degrees of oversaturation da ending on cooling velocity. A shifting of the colid thate may occur if the specific weight of the

Orand 2/3

होत्रणात्राविदेश वेच आर्था व्यवस्था स्वीवेत्रात्र

SOV/163-50-4-17/47

colid pulse is higher than that of the liquid phase. 3) "Must of portraity forms due to a shift of the liquid alloy from top to bettom within the cryotalline nucleus. The development of volume crystallimation promotes the for ation of the nucleus. A greater shift of the colid phase loads to a reduced formation of "nuclear" porosity. 4) Porosity by the contraction forms when gas is literated bring the hipdening of the chey. This kind of perosity e-mast even if hardening is frontal.

There are 3 figures and 1 Soviet refere ce.

ADSUCTATION: Moshovskiy aviatsionnyy telihnologichoskiy institut (Moscow Avia-

STIMITATED:

Hove ther 20, 1957

J. 201 3/3

AUTHORS: Sharow, M. V., Serebryakov, V. V. SOV/32-24-10-21/70

TITLE: A Method for the Determination of the Solubility of

Hydrogen in Magnesium and Its Alloys (Metodika opredeleniya

rastvorimosti vodoroda v magnii i yego splavakh)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol 24, Nr 10,

pp 1226 - 1228 (USSR)

ABSTRACT: The solubility of hydrogen in metals and alloys is

usually determined according to the absorption

method (Ref 1). This method, however, is not applicable in the case of magnesium and its alloys as magnesium exhibits too high a vapor pressure at high temperatures.

For this reason the melted metal or the alloy is saturated with hydrogen and then the hydrogen content of a sample is determined (Refs 2-4). Winterchager (Vinterkhager) (Ref 2) took out the sample according to the method of "hardening". According to Ransley (Rensley) (Ref 5), however, on the occasion of

crystallisation of the metal saturated with hydrogen

Card 1/3 not all the hydrogen always remains in the solid solution.

CIA-RDP86-00513R001548620014-0 "APPROVED FOR RELEASE: 08/23/2000

A Method for the Determination of the Solubility of Hydrogen in Magnesium and Its Alloys

SOV/32-24-10-21/70

The imperfection of the device for the saturation of the melt with hydrogen is mentioned as an essential deficiency in the work carried out before. A device is described which makes it possible to maintain a hydrogen pressure of 1 atmosphere above the metal melt. The device is shown in a figure. In the description it is mentioned that for the determination of the hydrogen content of the samples the method by A.P. Gudchenko (Refs 6,7) was used. Comparative experiments according to the method of extraction were also made; the results (given in a table) for the main part differ for only by 5% at most. There are 3 figures, 1 table, and 7 references, 3 of which are Soviet.

ASSOCIATION: Moskovskiy aviatsionnyy tekhnologicheskiy institut (Moscow

Aviation-Technological Institute)

Card 2/3

A Method for the Determination of the Solubility of SOV/52-24-10-21/70 Hydrogen in Magnesium and Its Alloys

SOKOL'SKAYA, Lidiya Iosifovna; KRYMOV, V.V., kand.tekhn.nauk, nauchnyy red.; SHAROV, M.V., kand.tekhn.nauk, retsenzent; KRYSIN, B.T., inzh., retsenzent; EL'KIND, L.M., red.izd-va; KARASEV, A.I., tekhn.red.

[Gases in light metals] Gazy v legkikh metallakh. Pod nauchnoi red. V.V.Krymova. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1959. 114 p. (MIRA 12:6) (Gases in metals)

SHAROV M.V.

PHASE I BOOK EXPLOITATION

SOV/3505

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Spravochnik po mashinostroitel'nym materialam v chetyrekh tomakh, tom 2: Tsvetnyye metally i ikh splavy (Handbook on Machine-Building Materials in 4 volumes, v. 2: Nonferrous Metals and Alloys) Moscow, Mashgiz, 1959. 639 p. Errata slip inserted. 25,000 copies printed.

Ed.: G. I. Pogodin-Alekseyev, Doctor of Technical Sciences, Professor; Ed. of this vol.: M. A. Bochvar, Engineer; Ed. of Publishing House: V. I. Rybakova, Engineer; Managing Ed. for Information Literature:

I. M. Monastyrskiy, Engineer; Tech. Eds.: T. F. Sokolova and

B. I. Model'.

PURPOSE: This book is intended for machine designers and metallurgists.

Handbook on Machine-Building (Cont.)	sov/3505
Alloy Al 2	72
Alloys Al 3, Al 3V, Al 3V*	<u>75</u>
Alloys Al 4 and Al 4V	77 80
Alloy Al 5	90
Alloy Al 6	02
Alloys Al 7 and Al 7V	83
Alloy Al 8	82 83 86 89
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Alloy Al 10V	91
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Alloy Al 15V	97
Alloy Al 16V	97 97 98 98
Alloy Al 17B	98
Alloy Al 18V	99
Alloy Al 19 Alloy VI-11-3	100
Alloy V-300	101
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18(4) AUTHORS: Sharov, M. V., Nikishayeva, O. I. SOV/163-59-1-13/50 TITLE: Degassing of Aluminum-Silicon Melts With the Help of Fluxing Agents (Degazatsiya alyuminiyevokremniyevykh splavov pri pomoshchi flyusov) PERIODICAL: Nauchnyye doklady vysshey shkoly. Metallurgiya, 1959, Nr 1, pp 58-62 (USSR) ABSTRACT: This is an examination of the opportunities of using degassing fluxing agents in pot furnaces and in radiation furnaces intended for the melting of cast iron alloys. The results were also checked under operation conditions. The experiments were conducted with the alloy AL-10V, which is widely used in piston production. At the beginning of each experiment hydrogen at a rate of 0.8 - 0.9 cm³/100 g was introduced into the melt. The hydrogen content was measured with an instrument developed by A. P. Gudchenko. Three fluxing agents were investigated: Nr 1, with 47% of KCl + 30% of NaCl + 23% of Na3AlF6, Nr 2, with 50% of KCl + 40% of NaCl + 7% of Na3AlF6 + 3% NaF, and Nr 3 with $K_2 ZrF_6$. The method applied in the Card 1/3 experiments and that applied in the tests on a production

Degassing of Aluminum-Silicon Melts With the Help of Fluxing Agents

sov/163-59-1-13/50

scale are described. The experiments lead to the following conclusions: 1) If the alloy AL-10V in a liquid state is treated with the fluxing agents in question degassing proceeds to a sufficient degree if the melting is done in pot furnaces. The fluxing agents Nr 1 or 2 are added in a quantity of 0.2% of the alloy weight. The total time required for the treatment with the fluxing agents depends on the depth of the bath and is 2-3 hours on the average. 2) For the production of steel free from blowholes a treatment of the melt with potassium fluozirconate is very effective. The treatment can be limited to a time of 5-7 minutes. 3) If the metal is melted in radiation furnaces with continuous charging, the use of the fluxing agents Nr 1 and 2 leads to a reduction of the hydrogen content in the melt. This reduction is but smaller than if melting is done in pot furnaces. 4) A treatment of the melt with potassium fluozirconate reduces the gas content of the melt by a factor of 2. If degassing is carried out with potassium fluozirconate this salt is added in a quantity of 0.4-0.5% of the melt weight and is kept at the surface of the bath for 10 - 15 minutes at 730-780°.

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Degassing of Aluminum-Silicon Melts With the Help SOV/163-59-1-13/50 of Fluxing Agents

Afterwards the melt is mixed through. In this case the fluxing agents Nr 1 and 3 are used as a blanket which must be replaced at least every hour. There are 2 figures, 2 tables, and 1 Soviet reference.

ASSOCIATION:

Moskovskiy aviatsionnyy tekhnologicheskiy institut (Moscow

Aviation Technology Institute)

SUBMITTED:

December 10, 1957

Card 3/3

18(4) AUTHORS:

Sharov, M. V., Bibikov, Ye. L.

RELIC DESCRIPTION AND REPORT OF THE PROPERTY O

507/163-59-1-14/50

TITLE:

Tendency of the Alloys of the System Mg-Al-Zn Toward Porosity Development (Sklonnost' splavov sistemy Mg-Al-Zn k razvitiyu poristosti)

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Metallurgiya, 1959, Nr 1, pp 63-67 (USSR)

ABSTRACT:

This is a comparative study of the tendency of this system to develop micro-pores. Its dependence upon the composition of the alloy, the hydrogen content in the melt and the thermal conditions during the cooling of the cast are investigated. The procedure adopted in the experiments is described first. The following alloys were produced in an electric furnace:

1) Magnesium-aluminum alloys, with an aluminum content varying from zero to 10%. 2) Magnesium-zinc alloys with a zinc content varying from zero to 6% and 3) Magnesium-aluminum-zinc alloys, the aluminum content and the zinc content of which did not exceed 10% and 6%, respectively. The conditions during freezing were investigated. In conclusion the following is stated: The diagrams presented in this paper provide a means of determining the tendency of Mg-Al-Zn alloys to

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Tendency of the Alloys of the System Mg-Al-Zn Toward Porosity Development

507/163-59-1-14/50

develop porosity as a function of the alloy composition and the technological conditions during casting. The influence of the latter can easily be determined from formula (2). The hydrogen dissolved in the metal exercises a decisive influence upon the development of porosity during casting, if K<0.4, where K denotes a critical number determining the character of freezing, being proportional to Δt , Δt denoting the

temperature gradient in the cross-section of the cast, and I the temperature interval of crystallization of the melt (both given in $^{\circ}$ C). Among the alloys used in industry that with an aluminium content of 9% and a zinc content of 2% proved to be the worst, at a value of $K \geqslant 0.4$, whereas the M1-5 alloy and the magnesium alloy with 5% of zinc are rather good. If freezing proceeds at a value of $K \leqslant 0.4$ the M1-5 alloy does not show any tendency towards porosity at a low hydrogen content. If, however, the hydrogen content rises above $20 \text{ cm}^3/100 \text{ g}$ of metal this alloy turns out to be the worst. It is, therefore, necessary to use melts with a low hydrogen

Card 2/3

Tendency of the Alloys of the System Mg-Al-Zn

SOV/163-59-1-14/50

Toward Porosity Development

content in order to obtain high-quality casts. Under cooling conditions characterized by $K \le 0.4$ the alloy M1-4 is the worst. There are 2 figures and 4 references, 2 of which are

Soviet.

ASSOCIATION:

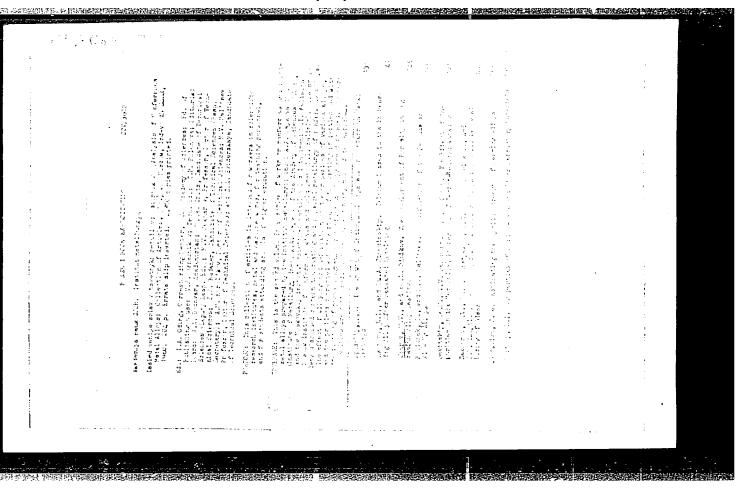
Moskovskiy aviatsionnyy tekhnologicheskiy institut (Moscow

Aviation Technology Institute)

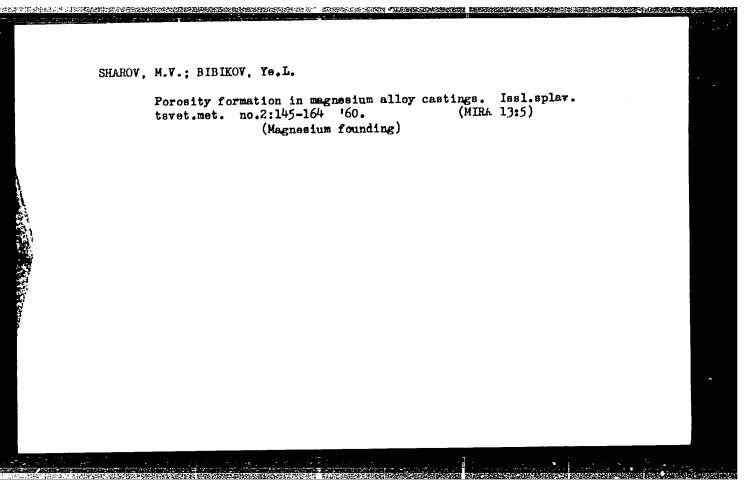
SUBMITTED:

January 23, 1958

Card 3/3



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	Card 4/6	Sivertuce, A.A. The Connection Between the Cooling Ragins of a Continuous Ingot and the Formation of Grania and Figure.	Ruces, Y.S. Shrinkage Phenomena in Continuous Steel Ingoto	Towaston in High-Liloy Steel Ingots	Bororditakty Al and V Dischage		III. CRACKS IN CASTINGS AND VELDED JOINTS	- Starry R.T., and [e.L. Biblion. Porosity in Castings of Alloys of the Mangares-Alumina-Lino System	Lizat M.B. On the incresse in the Density of Aluminum Alloy Cartings	Relower, S.M., and A.A. Dodonov. Investigation of the Effect of Pressure	V18527 7.1., and Te.F. Kneelova. Investigation of Shrinkage Porosity in Steel Castings	Partice_ind., and B.B. Galysyev. Axial Shrinkage Percetty in Walts of Steal Castings	II. SHRIMLAGE POROSITE	ilitsyn, K.W. Molten Metal and Alloy Chrinkage and its Determination	Kiocher, N.i., and G.S. Sirishov. Experimental Investigation of Chrickeye Figureau in Iron Castings With Spheroidal Graphics	n the lemantion of Serimage Captules in Steel Castings Restur, 1 No. Casting Properties of Heat-Resistant Alloys	I. SHAUNKAGE CAPITIES Variable O.M. and B.B. Griverer, Influence of Solidification Conditions	Culyayer, B.B. The Problem of Shrinkage Processes in Metals	Personal	TABLE OF CONTENTS:	The most serious defects in casking, ingote, and welds as a result of notate abrinhage are reviewed. Nature contributing to the formation of shrinkage cavities, porestly, creaks, finances, distortion, and internal stressy are analyzed along with measures taken to present and remedy them. The hydrolynamics of solice actis and the process of solidification of setals are distorted. Also presented are resolutions alonged at the Conference with regard to the problem of shrinkage in setals. No personalities are restioned. Yest present are accompanied by bibliographic references, the sajority of which are Soutest.	COTENATE: The collection contains technical papers presented at the Third Conference on the Theory of Casting Processes, organized by Literanya sektalys Konistit po technologist machinactorypariya institute machinoredentya AM SSSM (Casting Section of the Gomensation for Machine-Building Technology of the Institute of Savance of Machines, Loademy of Sciences USAB) and by Institut metallurgit intend Saykeva AM SSSM (Institute of Metallurgi Lend A.A. Baykev, Academy of Sciences USAB).	PURPOSE: This collection of articles is intended for scientific workers, engineers, technicians of scientific research institutes and industrial plants, and for faculty members of schools of higher education.	darp. Ed.: B.B. Gulyayer, Doctor of Technical Sciences, Professor; Ed. of Publishing House: V.S. Rabeznikov; Tech. Ed.: T.V. Polyakova.	Spendering Agency: Akademiya muk SSSR. Institut mashinovedeniya. Komisniya po tekinologii mashinostroyeniya.	Unidochtyre proteensy w metallakh; trudy soweshohaniya (Shrinkage Processes in Metalu; Transactions of the Third Conference on the Theory of Casting Processes) Kostow, AM SSSR, 1960. 281 p. Errata alip inserted. J,000 copies printed.	Soveshahaniye po teorii liteynykh protessov, jd	PHASE I BOOK ELTIDITATION SOV/2343	
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E021/E435

AUTHORS:

Sharov, M.V., Candidate of Technical Sciences

Nikishayeva, O.I.

TITLE:

Degassing of aluminium alloys by hexachlorethane

PERIODICAL: Moscow. Aviatsionnyy tekhnologicheskiy institut. Trudy. No.49. 1961, pp.47-72. Voprosy tekhnologii

liteynogo proizvodstva

The disadvantages of using chlorine and chlorides for degassing aluminium melts are discussed and the use is recommended of hexachlorethane which is readily available and inexpensive in relation to manganese chloride. Experiments on the degassing ability of hexachlorethane have been carried out on alloys $A\Pi 2$ Melts of 5.5 kg were prepared in a graphite (AL2) and AN9 (AL9). Gas contents were measured by the method due to crucible A.P.Gudchenko (M.V.Sharov, A.P.Gudchenko, Fundamental metallurgy of light alloys, p.306, Collection of Papers, Oborongiz, 1957). hydrogen content before degassing was 0.75 to 0.9 cm3/100 g metal, This was obtained by addition of moist asbestos wads. Samples 50 mm in diameter were cast and plates 3 mm thick were cut from Experiments on AL2 alloy were them for radiographic examination. Card 1/10

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S/536/61/000/049/003/003 E021/E435

Degassing of aluminium alloys ...

Fig.3 shows the change in hydrogen carried out at 700 to 710°C. content (H_2 in cm³/100 g of metal) with increase in quantity of hexachlorethane (%), the analysis being carried out 10 to 15 min ofter degassing. Radiographic investigations showed that sound castings were obtained with 0.2 to 0.25% hexachlorethane. Experiments showed also that sound sand-castings of modified AL2 alloy could also be obtained if the alloy was first degassed. was shown that temperature, in the range 700 to 750°C, had no effect on the soundness of AL2 castings. Table 2 shows the effect of degassing time on the hydrogen content by adding a number of portions of hexachlorethane over a period of time using a constant total amount. The best results were obtained when each portion was less than 25 to 30% of the total added. Table 3 shows that hexachlorethane is a more efficient degassing agent than manganese chloride. Radiographs of AL2 alloy after degassing with 0.1% hexachlorethane, or with 0.1% manganese chloride, are reproduced in the paper. Degassing of AL2 alloy was tried under production conditions. It was shown that degassing by hexachlorethane was advantageous both from porosity checks and tests of mechanical properties. Experiments on AL9 alloy showed that the Card 2/10

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Degassing of aluminium alloys ... E021/E435

S/536/61/000/049/003/003 E021/E435

hydrogen content (in $cm^3/100$ g metal) decreased with increase in addition of hexachlorethane (%), Fig.7. To produce sound castings 0.7 to 0.75% hexachlorethane was required. Table 6 shows the offect of increasing the degassing time by increasing the number of portions added, using the same total quantity of degassing agent. The best results were obtained when each portion was less than 20% of the total amount. Table 7 shows that for AL9 alloy, with increase in melt temperature there is a decrease in hydrogen Experiments on modified AL9 alloy showed that it was practically impossible to obtain sound castings. Tests under production conditions showed that a lower porosity and higher mechanical properties were obtained when hexachlorethane was used as a degassing agent for AL9 alloys. Acknowledgments are expressed to Ye.L.Bibikov, B.A.Tikhomirov and N.M.Galdin for assistance in tests. M.F. Nikitina is mentioned in the paper for her contribution in the field. There are 11 figures, 12 tables and 11 references: 9 Soviet and 2 non-Soviet. The two references to English language publications read as follows: W. Mannchen, W. Fisher, Metal, 1953, No.6. Herrman, Aluminium archiv, 1937, No.6. Card 3/10

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SHAROV, M.V., kand.tekhn.nauk; NIKISHAYEVA, O.I.

Gas removal from aluminum-silicon alloys by means of hexachlorethane.

Trudy MATI no. 49:47-72 '61. (MIRA 14:5)

(Aluminum-silicon alloys-Metallography) (Gases in metals)

SHAROV, M.V., kand.tekhn.nauk; SEREBRYAKOV, V.V., kand.tekhn.nauk

Hydrogen in the ML5 alloy. Trudy MATI no. 49:170-179 '61.

(MIRA 14:5)

(Magnesium alloys—Hydrogen content)

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                                                                                                                                                     Magnesium-zinc alloys with up to 10% aluminium and 500°C. The droi
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CIA-RDP86-00513R001548620014-0 5/806/62/000/003/013/012 Modern methods for the elimination of gaseous porosity in aluminum-AUTHORS: Sharoy, M.Y., Nikishayava, O.I. Akademiya nauk SSSR. Institut metallurgii. Issledovaniye splavov tevetnykh metallov. no.3. 1962. 149-162. The paper describes an investigation of the diffusional elimination of H to paper describes an investigation of the defastively slow process).

t. the degassing by means of special fluxes (a relatively slow process). The paper describes an investigation of the diffusional elimination of figure a melt, the degassing by means of special fluxes (a relatively sales (Cl. N. Ar and the more effective degassing of Al allovs by means of blowing gases (Cl. N. Ar and the more effective degassing of Al allovs by means of blowing gases (Cl. N. Ar and the more effective degassing of Al allovs by means of blowing gases (Cl. N. Ar and the more effective degassing of Al allovs by means of blowing gases (Cl. N. Ar and the more effective degassing of Al allovs by means of blowing gases (Cl. N. Ar and the more effective degassing of Al allovs by means of blowing gases (Cl. N. Ar and the more effective degassing by means of blowing gases). silicon-alloy castings. trom a melt, the degassing by means of special fluxes (a relatively slow process), of special fluxes (a relatively slow process), Ar, Ar, of special fluxes (a relatively slow process), and the degassing by means of blowing gases (Cl, N, Ar, and the means of blowing gases) it is little used be and the more effective degassing of Al alloys by means of blowing gases (Cl, N, Ar, and the means of blowing gases) it is the most effective but is little used be and the more effective degassing of Al alloys by means of blowing gases (Cl, N, Ar, and the means of blowing gases) is the most effective but is little used be and the more effective degassing of Al alloys by means of blowing gases. and the more effective degassing of Al alloys by means of blowing gases (Cl, N, Ar, Cl is the most effective but is little used be or He) through the melt. Of the latter, Cl is the most effective and nontoxic. but cause of its toxicity. Chlorides (of Mn, Zn, and Al) are effective and nontoxic. TITLE: or He) through the melt. Of the latter, Cl is the most effective but is little used because of its toxicity. Chlorides (of Mn, Zn, and Al) are effective and nontoxic, but cause of its toxicity. Chlorides require prolonged drving and protection during are highly hygroscopic and. hence. cause of its toxicity. Chlorides (of Mn, Zn, and Al) are effective and nontoxic, but prolonged drying and protection during are highly hygroscopic and, hence, require prolonged (C.Cl.)) appears to be effective and storage. SOURCE: are highly hygroscopic and, hence, require prolonged drying and protection during are highly hygroscopic and, hence, require prolonged drying and protection during and protection during are highly hygroscopic and, hence, require prolonged drying and protection during are highly hygroscopic and, hence, require prolonged drying and protection during are highly hygroscopic and, hence, require prolonged drying and protection during are highly hygroscopic and, hence, require prolonged drying and protection during are highly hygroscopic and, hence, require prolonged drying and protection during are highly hygroscopic and, hence, require prolonged drying and protection during are highly hygroscopic and, hence, require prolonged drying and protection during are highly hygroscopic and, hence, require prolonged drying and protection during are highly hygroscopic and, hence, require prolonged drying and protection during are highly hygroscopic and, hence, require prolonged drying and protection during are highly hygroscopic and, hence, require prolonged drying and protection during are highly hygroscopic and, hence, require prolonged drying and protection during are highly hygroscopic and, hence, require prolonged drying and protection during are highly hygroscopic and, hence, require prolonged drying and protection during are highly hygroscopic. At melt temperature the following reaction appears to occur, and hence, require prolonged drying and protection during are highly hygroscopic. At melt temperature the following reaction are highly hygroscopic. At melt temperature are highly hygroscopic and highly hygroscopi nonhygroscopic. At melt temperature the following reaction appears to occur:

nonhygroscopic. At melt temperature the following reaction appears to occur:

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3C Cl + 2AlCl₃ the degassing process were made with the strain and participate in the degassing process. The losses in Alcing and in expensively and in expensively and in expensively and in expensively and in readily and in each instance. Tests were made with the strain are given in each instance. The crucibles (mean chair crucibles are given in each instance crucibles (mean chair) are given in each instance crucibles (mean chair) are given in graphite crucibles (mean chair). Alcomparisons with MnCl are given in graphite crucibles (mean chair) are given in graphite crucibles (mean chair). Alcomparisons with MnCl are given in each instance crucibles (mean chair). Alcomparisons with MnCl are given in each instance crucibles (mean chair). Alcomparisons with MnCl are given in each instance crucibles (mean chair). Alcomparisons with MnCl are given in each instance crucibles (mean chair). Alcomparisons with MnCl are given in each instance crucibles (mean chair). Alcomparisons with MnCl are given in each instance crucibles (mean chair). Alcomparisons with MnCl are given in each instance crucibles (mean chair). Alcomparisons with MnCl are given in each instance crucibles (mean chair). Alcomparisons with MnCl are given in each instance crucibles (mean chair). Alcomparisons with MnCl are given in each instance crucibles (mean chair). Alcomparisons with MnCl are given in each instance crucibles (mean chair). Alcomparisons with MnCl are given in each instance crucibles (mean chair). Alcomparisons with MnCl are given in each instance crucibles (mean chair). Alcomparisons with MnCl are given in each instance crucibles (mean chair) and make Al-Si alloys AAZ (ALZ), AL 4, and ALY in graphite crucibles (mean charge: 5.5.

The initial H content was near the maximum observed in industrial conditions.

Card 1/2 Card 1/2

Modern methods for the elimination of ...

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After degassing, the alloys were inoculated variously as described in the text and were cast at 720°C into sand molds and into preheated (250°) metal molds. In either instance the crystallization required about 13 minutes. X-ray transiliumination and specific-gravity and porosity determination were performed on 3-mm thick specimens. It was found that AL2 and AL9 could be successfully degassed with hexachloroethane (HCE). Laboratory tests and industrial verification tests show that compact castings of inoculated alloy can be obtained regardless of the mold employed. HCE treatment of AL2 is more effective and more economical in comparison with chloride treatment, and more especially MnCl₂. HCE treatment of AL2 ensures a very low H content in the melt and the production of compact castings in metal molds. AL9 requires more HCE to achieve a prescribed degree of degassing, and a higher degree of degassing to achieve a prescribed degree of compactness than AL2. When cast into sand molds, AL9 does reacquire some porosity by interaction with the moisture of the mold, but to a substantially smaller degree than upon degassing by MnCl₂. The investigations comprised tests on the effect of (1) the total time of HCE used, (2) the treatment T, and (3) the treatment time, on the intensity of degassing achieved. The treatment T does not appear to affect the treatment of ALZ appreciably but does effect a reduction in H content with increasing T in AL9, with a minimal value attained at T=740-750°C. Mechanical tests indicated increases in strength upon degassing. There are 4 figs., 9 tables, and 12 refs. (8 Russ.-lang. Sov., 2 Ger., & 2 Eng.-lang.-Francis, J. L., Rogers, S. J., Brit.Fdryman, Dec.1959, 529, and Card 2/2 (Assn: None given.) /Kellogg, H., J. of Metals, no.6, 1950, 862).

SHAROV, M.V., prof.; GUROVA, L.M., inzh.

Effect of iron on the structure and mechanical properties of Al-Si-Mg alloys. Trudy MATI no.56:5-18 '63. (MIRA 16:6)

(Aluminum-silicon-magnesium alloys-Metallography)
(Phase rule and equilibrium)
(Aluminum founding)

SHAROV, M.V.; NIKISHAYEVA, O.I.

Degassing aluminum alloys by hexachloroethane. Alium. splavy no.1:129-138 '63. (MIRA 16:11)

DRITS, M.Ye., doktor tekhm. nauk, otv. red.; BOCHWAR, A.A., akademik, red.; BELOV, A.F., doktor tekhm. nauk, red.; DOBATKIN, V.I., doktor tekhm. nauk, red.; MAL'TSEV, M.V., doktor tekhm. nauk, red.; FRIDLYANDER, I.N., doktor tekhm. nauk, red.; SVIDERSKAYA, Z.A., kand. tekhm. nauk, red.; YELAGIN, V.I., kand. tekhm. nauk, red.; BARBANEL', R.I., kand. tekhm. nauk, red.; SHANOV, M.V., kand. tekhm. nauk, red.; KADANER, E.S., kand. tekhm.nauk, red.; TROKHOVA, V.F., red.; CHERNOV, A.N., red.

[hetallography of light alloys] hetallovedenie legkikh splavov. Moskva, Nauka, 1965. 226 p. (MIRA 18:10)

1. Moscow. Institut metallurgii.

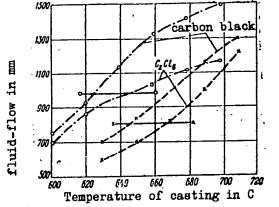
ACC NR: AT601		' :	SOURCE CODE:	UR/0000/	65/000/000/0	0006/0018
AUTHOR: Shar	ov, M. V.					47
ORG: none			1			13+1
TITLE: Contr	ol of gas por	osity in <u>alumin</u>	w alloys			
SOURCE: AN S graphy of ligh	SSR. Institut t alloys). M	metallurgii. Me oscow, Izd-vo Na	etallovedeniy auka, 1965, 6	e legkikh -18	splavov (Me	etallo-
TOPIC TAGS:	aluminum allo	, hydrogen, met	tal oxidation	, metal te	est	
the prevention presented. Tally preventive and 3) method inary removal methods by the supports h	n of metal por he author class measures, 2) s in which the of hydrogen. s light-alloys is conclusions	employed in the cosity are class sifies the varimethods based of formation of gothern assignment, the author assignment, has: 2 to	sified. No notious methods on removal of gas bubbles is serts that all in one of the of pertinent	ew experimento three hydrogen prevente currentle above me	mental mater main categoral from liquided without a by employed entioned cla	rial is gories: % d alloys,/ a prelim- degassing asses.
the prevention presented. Tally preventive and 3) method inary removal methods by the supports has from the literal	n of metal por he author class measures, 2) s in which the of hydrogen. s light-alloys is conclusions rature. Orig.	esity are classesifies the varimethods based of formation of games and the second seco	sified. No notious methods on removal of gas bubbles is serts that all in one of the of pertinent cables, 5 graphs	ew experimento three hydrogen prevente currentle above me	mental mater main categoral from liquided without a by employed entioned cla	rial is gories: % d alloys,/ a prelim- degassing asses.

EMP(3)/Ed1(1)/Ed1(m)/EdP(t)/Eli iur(c) 29683-66 ACC NR: AT6011848 SOURCE CODE: UR/2536/65/000/063/0045/0061 AUTHORS: Nikishayeva, O. I. (Candidate of technical sciences); Sharov, M. V. (Professor); Fadeyeva, G. S. (Engineer) B+1 ORG: Moscow Aviation Technology Institute (Moskovskiy aviatsionnyy tekimologicheskiy institut) TITLE: Coatings for surfaces of casting molds for aluminum-silicon alloys SOURCE: Moscow. Aviatsionnyy tekhnologicheskiy institut. Trudy, no. 63, 1965. Proizvodstvo otlivok iz legkikh splavov (Production of castings from light alloys), 45-61 TOPIC TAGS: aluminum alloy, silicon alloy, metal casting/ AL2 aluminum alloy, AL9 aluminum alloy ABSTRACT: The effect of coating the surfaces of casting molds with carbon black, hexachloroethane, and hexachlorobenzene on the properties of the melt and the quality of aluminum-silicon castings was investigated. The results supplement the investigations of G. F. Balandin, Yu. A. Stepanov, et al (Liteynoye proizvodstvo, 1961, No. 8). The experiments were carried out on alloys AL2 and AL9, with the chlorinated hydrocarbons being applied to the surfaces with an atomizer in the form of a 20% acetone solution. The carbon black was deposited with an acetylene gas burner. The experimental procedure followed is described by M. V. Sharov and O. I. Nikishayeva (Trudy <u>Card</u> 1/2 UDC: 669.716:001.5

ACC NR. AT6011848

MATI, vyp. 43, Oborongiz, 1961), and the experimental results are summarized in graphs and tables (see Fig. 1).

Fig. 1. Influence of the temperature of melt on the fluid-flow of AL2 and AL9 alloys when cast into a mold coated with carbon black and hexachloroethane. Open circle, dash, dot, dash, open circle - alloy AL2; cross, dash, dash, dash, cross - alloy AL9; open circle, dash, open circle - no coating, cast temperature 700C; cross, dash, dash, dash, no coating, cast temperature 710C.



The use of carbon black or hexachloroethane coatings considerably improves the degree of mold filling, permits lowering of the casting temperature, increases the density of castings, and prevents the formation of hot cracks in the castings. Coating of molds with hexachlorobenzene had little or no effect either on the properties of the alloy melt or the quality of the castings. P. F. Odiny participated in the experimental work. Orig. art. has: 12 tables and 2 figures.

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 004/ OTH REF: 004

Card 2/2 UC

EWT(1)/EWT(m)/EWP(t)/ETI L 29682-66 IJP(c) ACC NR. AT6011849 (N)SOURCE CODE: UR/2536/65/000/063/0062/0085 AUTHORS: Golubenko, R. A. (Engineer); Sharov, M. V. (Professor) ORG: Moscow Aviation Technology Institute (Moskovskiy aviatsionnyy tekhnologicheskiy TITLE: Foundry heads with exothermic heating for aluminum alloy casts SOURCE: Moscow. Aviatsionnyy tekhnologicheskiy institut. Trudy, no. 63, 1965. Proizvodstvo otlivok iz legkikh splavov (Production of castings from light alloys), TOPIC TAGS: metal property, metal crystallization, aluminum, aluminum alloy, metal casting/ AL2 aluminum alloy, AL4 aluminum ABSTRACT: The optimum composition of mixtures for exothermic foundry head sleeves used in casting aluminum alloys AL2, AL4, and AL9 was determined. The mechanical and metallographic properties of castings obtained with and without the use of exothermic sleeves were compared, and the results of comparisons are tabulated. Photographs of castings obtained with and without the use of exothermic sleeves are presented (see Fig. 1). A schematic of the experimental installation is presented. The heat accumulation coefficient of a given exothermic mixture was determined after M. N. Galkin $b_{\text{obr}} = \frac{60}{10^{1}} \frac{\frac{\pi}{4} + 1}{2\sqrt{\pi}} \frac{x\gamma_{\pi}0_{\pi}}{8\kappa_{\Gamma}\sqrt{\tau_{k}}} - \left[\frac{x}{r}\left(\frac{1}{\pi} + 0.5\right) + \frac{2}{\pi} - 0.5\right]b_{\varphi}$ Card 1/3 UDC: 669.716:001.5

L 29682-66

ACC NR: AT6011849

$$\frac{G_r \cdot 60 \cdot 106}{4\sqrt{\pi}} \frac{c_r + \frac{\gamma_x}{\gamma_r} \cdot \frac{\varrho_x}{\vartheta_{kr}}}{r^2} \frac{1}{\sqrt{\gamma_{lex}}}$$

where b obr is the heat accumulation coefficient, r is the radius of the lower part of the specimen, γ is thickness of casting, ${\tt G}_{{\tt T}}$ and ${\tt \gamma}_{{\tt T}}$ are the weight and specific weight of the porcelain insulation of the thermocouple that is immersed in the metal, c_T is the specific heat of porcelain, γ_m and ρ_m are the specific heat and latent heat of crystallization of metal casting, τ_{kr} is the crystallization time of the metal, $\theta_{kr} = (t_{kr} - t_{\varphi})$ where t_{kr} is the crystallization temperature of the metal and $exttt{t}_{oldsymbol{arphi}}$ and $exttt{b}_{oldsymbol{arphi}}$ are the initial temperature and coefficient of heat accumulation of the mold material.

Fig. 1. Casting of alloy AL2 without and with the use of heated heads. 1 - casting,

2 - nonheated head, 3 - heated head.

Card 2/3

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ne best results ard	יסייביי ניקלו לטכוטנ	exothermic sleeves having the anese ore 40%, wood shavings the total of 100%. It is consequent of 50 to 60% of the 1	moluded that the use	
5%, clay 5%, and by f exothermic sleeve asting operations.	es results in a orig. art. has	saving of 50 to 60% of the l 8 tables, 13 figures, and	iquid metal during 1 equation.	
UB CODE: 11/ SUB	M DATE: none/	ORIG REF: 012/ OTH REF: C		7.7
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VEYS, D.A.; KOKHTEV, A.A.; LELYANOV, V.A.; MALYNICH, V.I.; POVOLOTSKIY, L.I.; RASKATOV, V.M., inzhener; TOPORNIN, G.S.[deceased]; LAPUSHKIN, A.D., dotsent, retsenzent; USPASSKIY, P.P., professor, retsenzent; ARKHAM-GEL'SKIY, V.M., kandidat tekhnicheskikh nauk, retsenzent; HEGIHER, Z. L., kandidat tekhnicheskikh nauk, retsenzent; SHAROV, M.Ya., kandidat tekhnicheskikh nauk, retsenzent; YUR'YEV, M.G., inzhener, retsenzent; LYUTIKOV, A.F., redaktor; MODEL', B.I., tekhnicheskiy redaktor.

[Manual on materials for the construction of locomotives and railroad cars] Spravochnik po materialam dlia lokomotivo- i vagonostroeniia. Pod obshchei red. V.M. Raskatova. Moskva, Gos. nauchno-tekhn. izd-vo machino-stroit. lit-ry, 1956. 481 p.

(Locomotives--Construction) (Railroads--Cars--Construction)

AVRASIN, Ya.D., kandidat tekhnicheskikh nauk; BERG, P.P., professor, doktor tekhnicheskikh nauk, BERNSHTEYN, M.L., kandidat tekhnicheskikh nauk; GENEROZOV, P.A., starshiy nauchnyy setrudnik; GLINER, B.M., inzhener; DAVIDOVSKAYA, Ye.A., kandidat tekhnicheskikh nauk; YELCHIN, P.M., inzhener; YEREMIN, N.I., kandidat fiziko-matematicheskikh nauk; IVANOV, D.P., kandidat tekhnicheskikh nauk "NOROZ, L.I., inzhener; KOBRIN, M.M., kandidat tekhnicheskikh nauk; KORITSKIY, V.G., dotsent; KROTKOV, D.V., inzhener; KUDRYAVTSEV, I.V., professor, doktor tekhnicheskikh nauk; KULIKOV, I.V., kandidat tekhnicheskikh nauk; LEPETOV, V.A., kandidat tekhnicheskikh nauk; LIKINA, A.F., inzhener; MATVEYEV, A.S., kandidat tekhnicheskikh nauk; MIL'MAN, B.S., kandidat tekhnicheskikh nauk; PAVLUSHKIN. N.M., kandidat tekhnicheskikh nauk; PTITSYN, V.I., inzhener [deceased]; RAKOVSKIY, V.S., kandidat tekhnicheskikh nauk, RAKHSHTADT, A.G., kandidat tekhnicheskikh nauk; RYABCHENKOV, A.V., professor, doktor khimicheskikh nauk; SIGOLAYEV, S.Ya., kandidat tekhnicheskikh nauk: SMIRYAGIN. A.P.. kandidat tekhnicheskikh nauk, SUL'KIN, A.G., inzhener; TUTOV, I.Ye., kandidat tekhnicheskikh nauk, KHRUSHCHOV, M.M., professor, doktor tekhnicheskikh nauk; TSYPIN, I.O., kandidat tekhnicheskikh nauk; SHAROV, M.Ya., inzhener; SHERMAN, Ya.I., dotsent; SHMELEV, B.A., kandidat tekhnicheskikh nauk; YUGANOVA, S.A., kandidat fiziko-matematicheskikh nauk; SATEL', E.A., doktor tekhnicheskikh nauk, redaktor; SOKOLOVA, T.F., tekhnicheskiy redaktor

[Machine builder's reference book] Spravochnik mashinostroitelia; v shesti tomakh. izd-vo mashinostroit. lit-ry. Vol.6. (Glav. red.toma E.A.Satel'. Izd. 2-oe, ispr. i dop.) 1956. 500 p. (MLRA 9:8) (Machinery-Gonstruction)

SHAROV, M. Ya., DENKER, I.I.; KALININA, Ye.P.

Conversion of the resin BMK-5 into a steric (three-dimensional) polymer. Lakokras.mats.1 ikh prim. no.5:25-27 *60. (MIRA 13:11) (Resins, Synthetic) (Polymers)

37775

S/661/61/000/006/068/081 D247/D302

15.8170

AUTHORS:

Konstantinova, N. G., Zhdanov, A. A., Andrianov, K. A., Sharov, M. Ya., Kyutner, M. A. and Zakharov, A. A.

TITLE:

Thermostable lacquer coatings based on silico-organic

polymers

SOURCE:

Khimiya i prakticheskoye primeneniye kremneorganicheskikh soyedineniy: trudy konferentsii, no. 6: Doklady, diskussii, resheniye. II Vses. konfer. po khimii i prakt. prim. kremneorg. soyed., Len. 1958. Leningrad, lzd-vo AM JSSR, 1961, 296-299

TEXT: A study was made of the thermostability of several lacquer-painted materials on the basis of different film-forming substances. The silico-organic resin K-47 was modified by the use of organic polymers to give a hard, cold-drying coat of increased thermostability. The metallic surface and its preparation was found to have a great influence on the adhesion, the protective properties and the thermostability of the coatings. In the discussion, the

Card 1/2

Thermostable lacquer coatings ...

S/661/61/000/006/0**68**/08**1** D247/D302

registration and technical specifications of some of the silicoorganic varnishes are given. Elasticity and hardness data are also
given. Coatings withstanding radioactive irradiation are menetioned.
Comparison of the properties of silico-organic and other enamels
are made, and methods of preparing surfaces before application of
the enamels are mentioned. The best thermostability recorded was
which P. A. Filippov (Leningrad) took part.

Card 2/2

TROSTYANSKAYA, Ye.B.; SHISHKIN, V.A.; SIL'VESTROVICH, S.I.; PANTELEYEV, A.S.; POLUBOYARINOV, D.N.; BALKEVHICH, V.L.; NATANSON, A.K.; KOLACHEV, B.A.; PETROV, D.A.; GOL'DBERG, M.M.; SHAROV, M.Ya., inzn., retsenzent; KITAYGORODSKIY, I.I., doktor tekhn. nauk, prof., retsenzent; LIVANOV, V.A., kand. tekhn. nauk, prof., retsenzent; TROSTYANSKAYA, Ye.B., red.; BABUSHKINA, S., ved. red.; TITSKAYA, B.F., ved. red.; VORONOVA, V.V., tekhn. red.

[New kinds of materials in engineering and industry]Novye materialy v tekhnike. Pod red. Trostianskoi E.B., Kolacheva, B.A., Sil'vestrovicha S.I. Moskva, Gostoptekhizdat, 1962. (MIRA 16:2)

(Materials)

SHAROV, N., inzh.

ALM-17 automatically controlled power ladder. Pozh. delo 7
no. 1:23 Ja '60. (MIRA 14:2)

(Fire departments-Equipment and supplies)

```
BRYKSIN, A., inzhener-polkovnik, letchik vtorogo klassa; SHAROV, N., inzhener-podpolkovnik, letchik vtorogo klassa; LYSENKO, S., inzhener-podpolkovnik

Transport airplane in take-off and landing. Vest. Vozd. Fl. no.12:69-71 D'61. (MIRA 15:3)

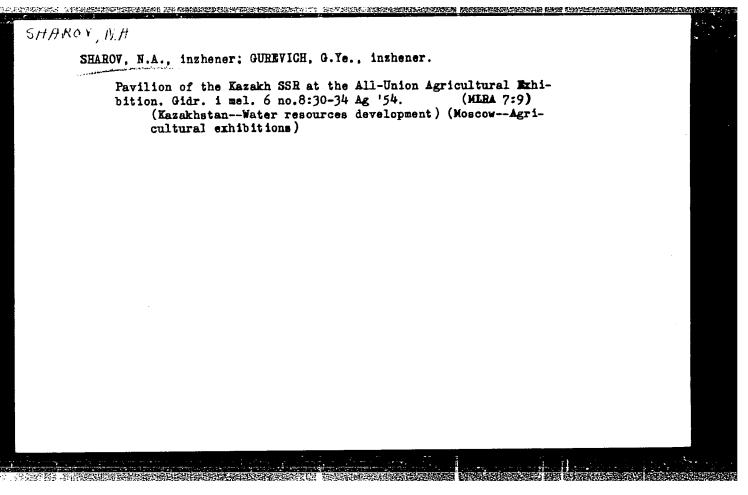
(Airplanes--Take-off) (Airplanes--Landing)
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SHAROV, N., inzh.

Higher efficiency, better quality. Pozh.delo 7 no.5:27 My '61.

(MIRA 14:5)

(Fumping machinery)



BOLOTOVA, N.P.; VINOKUR, Ya.Ye.; GIRSHKAN, S.A.; KOKLYANOV, A.F.; KUNDZICH, M.M.; NEFEDOV, V.D.; OFFENGENDEN, S.R.; PISHCHIKOV, R.S.; POSLAVSKIY, V.V.; TOMILOV, V.S.; SHAROV, N.A.; SHTAREV, Ya.K.; SHUBLADZE, K.K.

Ways of improving technical aspects and lowering the cost of constructing irrigation, drainage and water supply systems.

Gidr. i mel. 10 no.4:17-39 Ap *58.

(Irrigation) (Drainage) (Water supply, Rural)

CIA-RDP86-00513R001548620014-0 "APPROVED FOR RELEASE: 08/23/2000

14(10)

SOV/99-59-6-13/13

AUTHOR:

Sharov, N.A., Engineer

TITLE:

Conference on Problems of Crop Irrigation Mechani-

zation in the USSR

FERIODICAL:

Gidrotekhnika i melioratsiya, 1959, Nr 6, pp 61-64,

(USSR)

ABSTRACT:

The article describes the Conference on Froblems of Crops Irrigation Mechanization in the USSR called by the Vsesoyuznyy nauchno-issledovatel'skiy institut mekhanizatsii sel'skogo khozyaystva (All-Union Research Institute of Agriculture Mechanization) and held in Moscow from March 18 to 21. 1959. The conference was dedicated to problems of sprinkling. The following organizations were represented in it: research institutes, water economy corporations, institutions of higher learning, special design offices, planning organizations, industrial enter-

Card 1/4

prises from the Uzbek, Ukrainian, Azerbaydzhan,

的现在分词,我们就是我们的证据的,我们就是我们的是是我们的,我们就是我们的,我们就是这个人,我们也可以是我们的,我们就是我们的,我们就是我们的是我们的,我们就会

SCV/99-59-6-13/13

Conference on Problems of Crop Irrigation Mechanization in the USSR

Georgian, Kirgiz, Kazakh, Turkmen, and the Moldavian SSR, the RSFSR, as well as the Gosudarstvennyy Nauchno-tekhnicheskiy komitet pri Sovete Ministrov SSSR
(State Scientific and Technical Committee Attached
to the Ministers Council of the USSR), the Giprovodkhoz, and the Ministerstvo sel'skogo khozyaystva SSSR
(Ministry of Agriculture of the USSR). In all, the
conference was attended by more than 100 specialists
and representatives of at least 53 organizations.
The conference had its past developments summed up
and made several decisions to promote irrigation
mechanization. The following reports were delivered
there: A.V. Krasnichenko, Director of the VISKhOM,
made an introductory speech; G.F. Nechetov, Senior
Engineer of the Upravleniye novoy tekhniki i ispytaniya mashin MSKh SSSR (New Equipment and Machinery

Card 2/4

SOV/99-59-6-13/13

Conference on Froblems of Crop Irrigation Mechanization in the USSR

Testing Administration of the MSKh USSR), lectured on "Present-Day Condition and Work Outlook for the Creation of New Sprinklers"; Candidate of Technical Sciences B.M. Lebedev, VISKhOM, - on his institute's laboratory work; Candidate of Technical Sciences S.Kh.Guseyn-Zade, Representative of the AzNIIGiM, - on sprinkling in the Azerbaydzhan SSR; Candidate of Technical Sciences V.I. Kal'nitskiy, GruzNIIGiM, - on sprinkling in the Georgian SSR; M.I. Rychkov, Manager of the Irrigation Engineering Section of the Moskovskaya opytno-issledovatel'skaya dozhdeval'naya stantsiya (Moscow Station for Testing and Sprinkling Research), - on sprinkling in the Moskovskaya Oblast'; V.I. Bogdanovich, Senior Scientific Worker of the UkrNIIGiM, - on sprinkling in the Ukraine; V.F. Vitte, Senior Scientific Worker

Card 3/4

SOV/99-59-6-13/13

Conference on Froblems of Crop Irrigation Mechanization in the $\ensuremath{\mathsf{USSR}}$

and Representative of the YuzhNIIGiM, - on sprink-ling mechanization; A.N. Koryagin, Scientific Worker of the Institut sel'skogo khozyaystva imeni Doku-chayeva (Institute of Africulture imeni Dokuchayev), - on a mobile sprinkling system in the Central Chernozem Zone; D.I. Sazonov, Chief Agronomist of the Magnitogorskiy molochno-ovoshchnyy sovkhoz (Magnitogorsk Milk and Vegetable-Growing Sovkhoz), - on on sprinkling vegetables and potatoes in Southern Ural; Engineer-Hydrotechnician F.N. Yur'yev - on sprinkling cotton at the Sovkhoz "Pakhta-Aral", with an expedition of the SANIIRI doing appraisal work.

ASSOCIATION: Glavodkhoz MSKh SSSR

Card 4/4

USCOMM-DC-61.002

SHAROV, N.A., inzh.

Recent developments in irrigation; seminar on irrigation problems.

Gidr. i mel. 13 no.12:58-60 D '61. (MIRA 14:12)

(Irrigation)

SHAROV, N.A.; MITROFANOV, V.S.

Study of the local irritating action of trimecaine, a new Rossian anesthetic. Trudy SMI 15:247-251 162 (MIRA 17:7)

l. Iz kliniki gospital noy khirurgii (zav. - prof. A.N. Kartavenko) i laboratorii obshchey farmakologii (zav. - prof. G.A. Ionomarev [deceased]) instituta farmakologii i khimic-terapii AMN SSSS.

SHAROV, N.A.

Comparative toxicity of trimeraine and novocaine administered by different methods. Farm. i toks, 25 no.6:731-732 N-D 162. (MIRA 17:8)

1. Taboratoriya obshchey farmakologii (zav. - prof. G.A. Fonomarev [deceased]) Instituta farmakologii i khimioterabii cMN SSSR i klinika gospitalinoy khirurgii (zav. - prof. A.N. Kartavenko) Emolenskiyo meditsinakogo instituta.

SHAROV, N.A.

Clinical and experimental evaluation of trimecaine, the new Russian preparation for local anesthesia. Trudy SMI 16:173-182 '63. (MIRA 18:1)

l. Iz kafedry gospital'noy khirurgii Smolenskogo meditsinskogo instituta (zav. - prof. A.N.Kartavenko), IV otdeleniya instituta khirurgii imeni A.V.Vishnevskogo (zav. - prof. N.I.Krakovsk'y) i laboratorii obshchey farmakologii instituta farmakologii i khimioterapii AMN SSSR (zav. - prof. G.A.Ponomarev [deceased]).

SHAROV, N.A., inzh.

Saturation irrigation as a basis of irrigation regimes; at the scientific and technological conference on the irrigation regime farm crops in the noncotton zone. Gidr. i mel. 15 no.ll:54-62 '63. (MIRA 17:1)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. Lenina.

POPOV, M.Z., prof.; SHAROV, N.A.

Trimecaine in ophthalmic surgery. Trudy SMI 16:264-266 '63. (MIRA 18:1)

l. In kafedry glaznykh bolezney (zav. - prof. M.Z.Popov) i kafedry gospital'noy khirurgii (zav. - prof. A.N.Kartavenko) Smolenskogo gosudarstvennogo meditsinskogo instituta.

KARTAVENKO, A.N., prof.: ELSECTERTY, N.I., prof.; SHAROV, N.A.

Clinical use of trimeraine. Sov. med. 28 no.9:86-89 S '65.

(MIRA 18:9)

1. Kafedra gespital'noy khirurgii (zav. - prof. A.N.Kartavenko)
Smolenskogo meditsinskogo instituta i IV otdeleniye (zav. - prof. N.I.Krakovskiy) Instituta khirurgii imeni Vishnevskogo AMN SSSR,

Moskva. 2. Chlen-korrespondent AMN SSSR (for Krakovskiy).

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PRYANISHNIKOVA, N. T.; SHAROV, N. A.

Comparative study of the activity of trimecaine and novocaine in infiltration anesthesia. Eksper. khir. i anest. no.2:83-86 (MTRA 15:6)

1. Iz laboratorii obshchey farmakologii (zav. - prof. G. A. Ponomarev) Instituta farmakologii i khimioterapii AMN SSSR i kliniki gospital'noy khirurgii (zav. - prof. A. N. Kartavenko) Smolenskogo meditsinskogo instituta.

(NOVOCAINE) (ANESTHETICS)

SHAROV, N.A.; MITROFANOV, V.S.

Experimental data on the evaluation of a new anesthetic trimecaine. Eksper. khir. i anest. no.1:80-82'63.

(MIRA 16:10)

1. Iz laboratorii obshchey farmakologii (zav. - prof. G.A. Ponomarev) Instituta farmakologii i khimioterapii AMN SSSR. (ANESTHETICS)

SCHOOL SECTION OF THE PROPERTY OF THE PROPERTY

GOROKHOV, A.M., putevoy rabochiy; BESEDOVSKIY, D.A.; TARASOV, A.I.; KRIVOBOK, G.K.; MOISEYENKO, A.D., inzh.-mekhanik; YUR'YAKS, P.I. [Jurjaks, P.]; IBRAÇIMOV, A.A.; SAFRONOV, V.S.; SHAROV, N.N.

Letters to the editor. Put' i put.khoz. 7 no.4:40-42 '63. (MIRA 16:3)

1. Stantsiya Talovaya, Yugo-Vostochnoy dorogi (for Gorokhov). 2. Nachal'nik distantsii zashchitnykh lesonasazhdeniy, stantsiya Atkarsk, Privolzhskoy dorogi (for Besedovskiy). 3. Nachal'nik putevoy mashinnoy stantsii, stantsiya L'gov, Moskovskby dorogi (for Tarasov). 4. Sekretar' partiynoy organizatsii stantsii Nikitovka, Donetskoy dorogi (for Krivobok). 5. Stantsiya Nikitovka, Donetskoy dorogi (for Moiseyenko). 6. Brigadir puti, stantsiya Platone, Pribaltiyskoy dorogi (for Yur'yaks). 7. Zamestitel' nachal'nika distantsii, Sal'yany, Zakavkazskoy dorogi (for Ibragimov). 8. Starshiy normirovshchik, stantsiya Rtishchevo, Privolzhskoy dorogi (for Safronov). 9. Sekretar' partiynoy organizatsii, stantsiya Rtishchevo, Privolzhskoy dorogi (for Sharov).

(Railroads-Maintenance and repair)

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SHAROV, N.F.; SHAKHET, G.P.; RAMENOV, A.S.; KUKHAREV, P.P.; KLOCHKOV, S.A., retsenzent; MARTYNOV, S.F., retsenzent; OSIPOV, Ya.I., retsenzent.

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